CLAIMS



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- 1. A method for detecting early cancer, comprising:
 - a) measuring midkine, and/or a fragment thereof, in a biological sample, and,
 - b) comparing the measured level obtained in step a) to a measured level a healthy subject.
- The method according to claim 1, wherein the early cancer is
 gastric cancer.
 - 3. The method according to claim 2, wherein the gastric cancer is at stage I.
- 15 4. The method according to claim 1, wherein the early cancer is hepatocellular carcinoma.
 - 5. The method according to claim 4, wherein the hepatocellular carcinoma is at stage I.
- 6. The method according to claim 1, wherein the early cancer is lung cancer.
- 7. The method according to claim 6, wherein the lung cancer is at stage I.
 - 8. The method according to claim 1, wherein the biological sample is serum or urine.
- 30 9. A use of an antibody recognizing midkine, and/or a fragment thereof, for early cancer detection.
 - 10. A diagnostic agent for early cancer comprising an antibody that recognizes midkine, and/or a fragment thereof.
 - 11. A kit for detecting early cancer in a biological sample, wherein

Supply States

the kit (a) comprises a container that holds an antibody that specifically binds to at least one epitope of midkine, and/or a fragment thereof, and (b) determines the presence of midkine, and/or a fragment thereof in the biological sample.

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- 12. The kit according to claim 11, wherein the antibody is adsorbed onto a solid.
- 13. A method for assessing cancer prognosis, comprising:

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- a) measuring midkine, and/or a fragment thereof, in a biological sample, and,
- b) correlating the measured level obtained from step a) to cancer prognosis.
- 14. The method according to claim 13, wherein the cancer is gastric cancer, hepatocellular carcinoma, or lung cancer.

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